Peter J Cullen

List of Publications by Year in Descending Order

76 papers	7,053 citations	40 h-index	83 g-index
89 ext. papers	8,391 ext. citations	10.9 avg, IF	6.32 L-index

#	Paper	IF	Citations
76	SNX27-Retromer directly binds ESCPE-1 to transfer cargo proteins during endosomal recycling.. *PLoS Biology*, **2022**, 20, e3001601	9.7	5
75	Sorting nexin-27 regulates AMPA receptor trafficking through the synaptic adhesion protein LRFN2. *ELife*, **2021**, 10,	8.9	5
74	Sorting nexin 5 mediates virus-induced autophagy and immunity. *Nature*, **2021**, 589, 456-461	50.4	21
73	A heterodimeric SNX4--SNX7 SNX-BAR autophagy complex coordinates ATG9A trafficking for efficient autophagosome assembly. *Journal of Cell Science*, **2020**, 133,	5.3	8
72	Neuropilin-1 is a host factor for SARS-CoV-2 infection. *Science*, **2020**, 370, 861-865	33.3	568
71	Acute inactivation of retromer and ESCPE-1 leads to time-resolved defects in endosomal cargo sorting. *Journal of Cell Science*, **2020**, 133,	5.3	9
70	Mammalian copper homeostasis requires retromer-dependent recycling of the high-affinity copper transporter 1. *Journal of Cell Science*, **2020**, 133,	5.3	6
69	Molecular identification of a BAR domain-containing coat complex for endosomal recycling of transmembrane proteins. *Nature Cell Biology*, **2019**, 21, 1219-1233	23.4	42
68	Retromer Controls Planar Polarity Protein Levels and Asymmetric Localization at Intercellular Junctions. *Current Biology*, **2019**, 29, 484-491.e6	6.3	11
67	TFEB controls retromer expression in response to nutrient availability. *Journal of Cell Biology*, **2019**, 218, 3954-3966	7.3	8
66	Actin-dependent endosomal receptor recycling. *Current Opinion in Cell Biology*, **2019**, 56, 22-33	9	37
65	Retromer associates with the cytoplasmic amino-terminus of polycystin-2. *Journal of Cell Science*, **2018**, 131,	5.3	2
64	Endosomal Retrieval of Cargo: Retromer Is Not Alone. *Trends in Cell Biology*, **2018**, 28, 807-822	18.3	71
63	Sorting nexin-21 is a scaffold for the endosomal recruitment of huntingtin. *Journal of Cell Science*, **2018**, 131,	5.3	6
62	Endoplasmic Reticulum-Endosome Contact Sites: Specialized Interfaces for Orchestrating Endosomal Tubule Fission?. *Biochemistry*, **2018**, 57, 6738-6740	3.2	5
61	Endosomal Sorting: Architecture of the Retromer Coat. *Current Biology*, **2018**, 28, R1350-R1352	6.3	13
60	Structural insights into the architecture and membrane interactions of the conserved COMMD proteins. *ELife*, **2018**, 7,	8.9	11

59	To degrade or not to degrade: mechanisms and significance of endocytic recycling. *Nature Reviews Molecular Cell Biology*, **2018**, 19, 679-696	48.7	190
58	SNX3-retromer requires an evolutionary conserved MON2:DOPEY2:ATP9A complex to mediate Wntless sorting and Wnt secretion. *Nature Communications*, **2018**, 9, 3737	17.4	32
57	The emerging role of retromer in neuroprotection. *Current Opinion in Cell Biology*, **2017**, 47, 72-82	9	43
56	The Phosphatidylinositol 3,4,5-trisphosphate (PI(3,4,5)P3) Binder Rasa3 Regulates Phosphoinositide 3-kinase (PI3K)-dependent Integrin □b□ Outside-in Signaling. *Journal of Biological Chemistry*, **2017**, 292, 1691-1704	5.4	25
55	Sequence-dependent cargo recognition by SNX-BARs mediates retromer-independent transport of CI-MPR. *Journal of Cell Biology*, **2017**, 216, 3695-3712	7.3	94
54	Retriever is a multiprotein complex for retromer-independent endosomal cargo recycling. *Nature Cell Biology*, **2017**, 19, 1214-1225	23.4	151
53	Retromer- and WASH-dependent sorting of nutrient transporters requires a multivalent interaction network with ANKRD50. *Journal of Cell Science*, **2017**, 130, 382-395	5.3	33
52	Atypical parkinsonism-associated retromer mutant alters endosomal sorting of specific cargo proteins. *Journal of Cell Biology*, **2016**, 214, 389-99	7.3	33
51	Parkinson's disease-associated mutant VPS35 causes mitochondrial dysfunction by recycling DLP1 complexes. *Nature Medicine*, **2016**, 22, 54-63	50.5	210
50	A defect in the retromer accessory protein, SNX27, manifests by infantile myoclonic epilepsy and neurodegeneration. *Neurogenetics*, **2015**, 16, 215-221	3	38
49	Retromer and sorting nexins in endosomal sorting. *Biochemical Society Transactions*, **2015**, 43, 33-47	5.1	132
48	Retromer binding to FAM21 and the WASH complex is perturbed by the Parkinson disease-linked VPS35(D620N) mutation. *Current Biology*, **2014**, 24, 1670-1676	6.3	118
47	A unique PDZ domain and arrestin-like fold interaction reveals mechanistic details of endocytic recycling by SNX27-retromer. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3604-13	11.5	119
46	Retromer: a master conductor of endosome sorting. *Cold Spring Harbor Perspectives in Biology*, **2014**, 6,	10.2	286
45	Identification of molecular heterogeneity in SNX27-retromer-mediated endosome-to-plasma-membrane recycling. *Journal of Cell Science*, **2014**, 127, 4940-53	5.3	69
44	Membrane-associated cargo recycling by tubule-based endosomal sorting. *Seminars in Cell and Developmental Biology*, **2014**, 31, 40-7	7.5	66
43	SNX15 links clathrin endocytosis to the PtdIns3P early endosome independently of the APPL1 endosome. *Journal of Cell Science*, **2013**, 126, 4885-99	5.3	19
42	Clathrin is not required for SNX-BAR-retromer-mediated carrier formation. *Journal of Cell Science*, **2013**, 126, 45-52	5.3	22

41	A global analysis of SNX27-retromer assembly and cargo specificity reveals a function in glucose and metal ion transport. *Nature Cell Biology*, **2013**, 15, 461-71	23.4	324
40	Microtubule motors mediate endosomal sorting by maintaining functional domain organization. *Journal of Cell Science*, **2013**, 126, 2493-501	5.3	38
39	Phosphoinositides in the mammalian endo-lysosomal network. *Sub-Cellular Biochemistry*, **2012**, 59, 65-110	3.5	22
38	SNX-BAR-mediated endosome tubulation is co-ordinated with endosome maturation. *Traffic*, **2012**, 13, 94-107	5.7	118
37	Molecular basis for SNX-BAR-mediated assembly of distinct endosomal sorting tubules. *EMBO Journal*, **2012**, 31, 4466-80	13	115
36	SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. *Journal of Cell Biology*, **2012**, 197, 219-30	7.3	136
35	Sorting nexins provide diversity for retromer-dependent trafficking events. *Nature Cell Biology*, **2011**, 14, 29-37	23.4	249
34	A SNX3-dependent retromer pathway mediates retrograde transport of the Wnt sorting receptor Wntless and is required for Wnt secretion. *Nature Cell Biology*, **2011**, 13, 914-923	23.4	248
33	Phosphoinositides and the regulation of tubular-based endosomal sorting. *Biochemical Society Transactions*, **2011**, 39, 839-50	5.1	10
32	Recent advances in retromer biology. *Traffic*, **2011**, 12, 963-71	5.7	91
31	SNX-BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. *Seminars in Cell and Developmental Biology*, **2010**, 21, 371-80	7.5	123
30	Intracellular membrane traffic at high resolution. *Methods in Cell Biology*, **2010**, 96, 619-48	1.8	42
29	The retromer complex. *Advances in Enzyme Regulation*, **2010**, 50, 216-36		71
28	The retromer coat complex coordinates endosomal sorting and dynein-mediated transport, with carrier recognition by the trans-Golgi network. *Developmental Cell*, **2009**, 17, 110-22	10.2	214
27	Phosphoinositides: Navigation through the endosomal maze. *Biochemist*, **2009**, 31, 20-25	0.5	2
26	Endosomal sorting and signalling: an emerging role for sorting nexins. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 574-82	48.7	300
25	Sorting nexin-1 defines an early phase of Salmonella-containing vacuole-remodeling during Salmonella infection. *Journal of Cell Science*, **2008**, 121, 2027-36	5.3	82
24	SNX4 coordinates endosomal sorting of TfnR with dynein-mediated transport into the endocytic recycling compartment. *Nature Cell Biology*, **2007**, 9, 1370-80	23.4	206

23	A loss-of-function screen reveals SNX5 and SNX6 as potential components of the mammalian retromer. *Journal of Cell Science*, **2007**, 120, 45-54	5.3	181
22	The retromer component sorting nexin-1 is required for efficient retrograde transport of Shiga toxin from early endosome to the trans Golgi network. *Journal of Cell Science*, **2007**, 120, 2010-21	5.3	107
21	Decoding complex Ca2+ signals through the modulation of Ras signaling. *Current Opinion in Cell Biology*, **2006**, 18, 157-61	9	25
20	The mammalian phosphatidylinositol 3-phosphate 5-kinase (PIKfyve) regulates endosome-to-TGN retrograde transport. *Journal of Cell Science*, **2006**, 119, 3944-57	5.3	202
19	Coincidence detection in phosphoinositide signaling. *Trends in Cell Biology*, **2005**, 15, 540-7	18.3	180
18	Sorting nexin-2 is associated with tubular elements of the early endosome, but is not essential for retromer-mediated endosome-to-TGN transport. *Journal of Cell Science*, **2005**, 118, 4527-39	5.3	88
17	Sorting nexin-1 mediates tubular endosome-to-TGN transport through coincidence sensing of high-curvature membranes and 3-phosphoinositides. *Current Biology*, **2004**, 14, 1791-800	6.3	365
16	Calcium signalling: the ups and downs of protein kinase C. *Current Biology*, **2003**, 13, R699-701	6.3	20
15	Integration of calcium and Ras signalling. *Nature Reviews Molecular Cell Biology*, **2002**, 3, 339-48	48.7	309
14	The phox homology (PX) domain-dependent, 3-phosphoinositide-mediated association of sorting nexin-1 with an early sorting endosomal compartment is required for its ability to regulate epidermal growth factor receptor degradation. *Journal of Biological Chemistry*, **2002**, 277, 48730-6	5.4	138
13	Modular phosphoinositide-binding domains--their role in signalling and membrane trafficking. *Current Biology*, **2001**, 11, R882-93	6.3	149
12	Effects of elevated expression of inositol 1,4,5-trisphosphate 3-kinase B on Ca2+ homoeostasis in HeLa cells. *Biochemical Journal*, **2000**, 352, 709-715	3.8	8
11	Identification of centaurin-α1 as a potential in vivo phosphatidylinositol 3,4,5-trisphosphate-binding protein that is functionally homologous to the yeast ADP-ribosylation factor (ARF) GTPase-activating protein, Gcs1. *Biochemical Journal*, **1999**, 340, 359-363	3.8	59
10	Confocal imaging of the subcellular distribution of phosphatidylinositol 3,4,5-trisphosphate in insulin- and PDGF-stimulated 3T3-L1 adipocytes. *Biochemical Journal*, **1999**, 344, 511-518	3.8	97
9	Identification of the Ras GTPase-activating protein GAP1m as an in vivo phosphatidylinositol 3,4,5-trisphosphate-binding protein. *Biochemical Society Transactions*, **1999**, 27, A104-A104	5.1	
8	MOLECULAR MODELLING OF THE INOSITOL 1,3,4,5-TETRAKISPHOSPHATE BINDING GAP1IP4BP AND GAP1m PH DOMAINS. *Biochemical Society Transactions*, **1999**, 27, A104-A104	5.1	
7	STRUCTURAL AND FUNCTIONAL ANALYSIS OF THE PUTATIVE INOSITOL 1,3,4,5-TETRAKISPHOSPHATE RECEPTORS GAP1IP4BP AND GAP1m. *Biochemical Society Transactions*, **1999**, 27, A104-A104	5.1	
6	Modulation of Ins(2,4,5)P3-stimulated Ca2+ mobilization by ins(1,3,4, 5)P4: enhancement by activated G-proteins, and evidence for the involvement of a GAP1 protein, a putative Ins(1,3,4,5)P4 receptor. *Biochemical Journal*, **1998**, 331 (Pt 3), 947-52	3.8	38

5	Nerve growth factor- and epidermal growth factor-stimulated translocation of the ADP-ribosylation factor-exchange factor GRP1 to the plasma membrane of PC12 cells requires activation of phosphatidylinositol 3-kinase and the GRP1 pleckstrin homology domain. *Biochemical Journal*, **1998**, 335 (Pt 1), 139-46	3.8	131
4	Membrane association, localization and topology of rat inositol 1,4,5-trisphosphate 3-kinase B: implications for membrane traffic and Ca2+ homoeostasis. *Biochemical Journal*, **1997**, 324 (Pt 2), 579-89	3.8	36
3	GAP1IP4BP; a protein linking inositol 1,3,4,5-tetrakisphosphate with Ras and Ca2+ homeostasis. *Biochemical Society Transactions*, **1997**, 25, 507S-507S	5.1	
2	Sorting nexin-27 regulates AMPA receptor trafficking through the synaptic adhesion protein LRFN2		1
1	Proteomic identification and structural basis for the interaction between sorting nexin SNX17 and PDLIM family proteins		1